

6. The method according to claim 1, wherein
- said vacuum level in said space is set at start of milking.
- 5 7. The method according to claim 1, wherein
- said vacuum level in said space is set dynamically during milking.
- 10 8. The method according to claim 1, wherein
- said milking machine comprises an animal identification system and a computer storing individual animal related milking parameters, and comprising the step of:
- setting said vacuum level in said space individually for each animal being milked by said milking machine, or individually for each udder quarter for each animal being milked by said milking machine.
- 15 9. The method according to claim 1, wherein
- said milking machine comprises vacuum difference measuring means, provided to measure the vacuum difference between the lower end of said teat cup liner and said space, and comprising the step of:
20 - adjusting said vacuum level in said space during milking in dependence of at least said measured vacuum difference.
- 25 10. The method according to claim 1, wherein
- said vacuum level in said space is set to a first value during a first part of said milking and to a second value during a second part of said milking.
- 30 11. The method according to claim 1, wherein
- said vacuum level in said space is set so that an increased vacuum difference is achieved between said space and said teat cup liner lower end for animals

having a higher milk flow than the average milking animal.

12. The method according to claim 1, wherein
- said teat cup shell or teat cup liner comprises a
5 sensor for sensing vacuum levels in said space.

13. A milking machine comprising at least a first teat
cup comprising a teat cup shell and a teat cup liner,
said teat cup liner comprises a lower end connected to a
milking vacuum source for drawing milk from said milking
10 animal, and a top end forming a space and an teat
entrance in which a teat of a milking animal is to be
introduced, said teat cup liner further comprises an
inlet to said space connected to a source,
characterised by

- 15 -control means controlling the vacuum in said space in
relation to a milking criteria of said animal.

14. The milking machine according to claim 13, comprising
- animal identification means provided to detect the
identity of a milking animal and relate said identity to
20 at least one milking criteria.

15. The milking machine according to claim 13, wherein
- said vacuum difference is dynamically varied during the
milking process depending upon the momentary milk flow.

16. The milking machine according to claim 13, wherein
25 - said milking criteria is the expected time to finish
the milking for the particular udder quarter being
milked.

17. The milking machine according to claim 13, wherein
- said milking criteria is the expected milk yield.

18. The milking machine according to claim 13, wherein

- said milking machine comprises one teat cup for each udder quarter to be milked, and
- said control means is provided to set the vacuum level in said space in each teat cup so that all udder quarters finish milking simultaneously.

19. The milking machine according to claim 13, wherein

- said vacuum level in said space is set at start of milking.

20. The milking machine according to claim 13, wherein

- said vacuum level in said space is set dynamically during milking.

21. The milking machine according to claim 13, wherein

- said milking machine comprises vacuum difference measuring means, provided to measure the vacuum difference between the lower end of said teat cup liner and said space, and
- said control means is provided to adjust said vacuum level in said space during milking in dependence of at least said measured vacuum difference.

22. The milking machine according to claim 13, wherein

- said vacuum level in said space is set to a first value during a first part of said milking and to a second value during a second part of said milking.

23. The milking machine according to claim 13, wherein

- said vacuum level in said space is set so that an increased vacuum difference is achieved between said space and said teat cup liner lower end for animals having a higher milk flow than the average milking animal.

24. The milking machine according to claim 13, wherein
- said teat cup shell or teat cup liner comprises a
sensor for sensing vacuum levels in said space.